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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Complete if Known
Application Number	09/466,035
Filing Date	December 17, 1999
First Named Inventor	Sallberg
Art Unit	1633
Examiner Name	A. Wehbe
Attorney Docket Number	PP001231.0105 (002441.00249)

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Examiner Initials *	Cite No.'	Document Number Number - Kind Code ² (if known)	Publication D MM-DD-YY			Patentee or Cited Docum	Applicant of nent	Pages, Columns, Lines, Where Passages or Relevan Figures Appear	
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		US- 5,814,617	09-199	8	Ho	offman (et al.		
		US- 5,863,542	01-199	9	P	aoletti e	et al.		
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		US- 5,589,466	12-31-19	96	F	elgner e	et al.		
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		US- 6,086,901	07-200	0	0'	Hagan	et al.		
		US- 5,462,734	10-199	5	Vajdy et al.				
		US- 2003/0021766	01-200	3					
		US- 5,843,723	12-01-19	98					
		US- 6,015,686	01-18-20	000	Du	bensky	et al.		
		US- 6,015,694	01-18-20	000	Du	bensky	et al.		
		US- 6,110,898	08-200	0	М	alone e	et al.		
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/AW		WO 00/4441	0	08-0	3-2000	Bio Primate	ichting medical e Research entre		
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		WO 02/4574	1	06	-2002	Del Gi	udice et al.		
		WO 92/11028	Α	07-0	9-1992	F	erro		
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Substitute	e for form 144	9B/PTO			Complete if Known
INEO		ON DIS	CLOSURE	Application Number	09/466,035
				Filing Date	December 17, 1999
SIA	I CIVICIN	IBYA	PPLICANT	First Named Inventor	Sallberg
				Art Unit	1633
	(Use as ma	any sheets as	necessary)	Examiner Name	A. Wehbe
Sheet	2	of	6	Attorney Docket Number	PP001231.0105 (002441.00249)

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials * Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
		Chapman et al. Nucleic Acid Research. 1991; 19: 3979-3986.					
		Wang et al. Virology. 1995; 211: 102-112.					
		Eldridge et al. Infection and Immunity. 1991; 59 (9): 2978-2986.					
		Pertmer et al. Vaccine. Oct. 1995; 13 (15): 1427-1430.					
		Doe et al. European Journal of Immunology, 1994; 24: 2369-2376.					
		Fletds et al. Virology. 3rd ed. Philadelphia: Lippencott Williams and Wilkins; 1995, page 1885.					
		Klein et al. Clinical Therapeutics. 2000; 22 (3): 295-314) on pages 304-305.					
		Marshal: Gene therapy's growing pains: Science: Vol. 289: pp. 1050-1055 Aug 1995					
		Mulligan: The basic science of gene therapy: Science: Vol. 260:pp. 928-932 May 1993					
		Wang et al., "Mucosal immunization with a DNA vaccine induces immune responses against HIV-1 at a mucosal site," Vaccine 15:821-825, 1997.					
		BELYAKOV et al., "Induction of a mucosal cytotoxic T-lymphocyte response by intrarectal immunization with a replication-deficient recombinant vaccinia virus expressing human immunodoficiency virus 89.6 envelope protein". J. Vivol. (1998), 72 (10): 8264-8272.					
$\sqrt{}$		Rothel et al. "Sequential Nucleic Acid and Recombinant Adenovirus Vaccination Induces Host-Protective Immune Responses Against Taenia Ovis Infection in Sheep." Parasite Immunology. Vol. 19, no. 5, May 1997. p. 221-227.					

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Substitute for form 1449B/PTO		Complete if Known
INFORMATION DISCLOSURE	Application Number	09/466,035
INFORMATION DISCLOSURE	Filing Date	December 17, 1999
STATEMENT BY APPLICANT	First Named Inventor	Sallberg
	Art Unit	1633
(Use as many sheets as necessary)	Examiner Name	A. Wehbe
Sheet 3 of 6	Attorney Docket Number	PP001231.0105 (002441.00249)

				POREIGN	PATENT DOCUMENTS		
Examiner Initials*	Cite No.1					Date of Publication	
		Omce'	Number*	Kind Code ⁱ (if known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	1.
/AW/	וע	WO	96/29412	Al	TAP Bio Vac Inc.	09-26-1996	
	D2	WO	99/2A578	. 1/2	Chiron S.P.A.	05-20-1999	
	B3	WO	99/36544	A2	Chiron S.P.A.	07-22-1999	
	84	WO	99/57280	A2	Chiron Corporation	11-11-1999	
	BS	wo	99/61053	Al	Chiron Corporation	12-02-1999	
	B6	WO	00/11140	Al	The Wister Institute of Anatomy and Biology	03-02-2000	
	B7	wo	00/22430	A2	Chiron Corporation	04-20-2000	
	B8	WO	00/39302	A2	Chiran Corporation	07-06-2000	
	B9	WO	00/50075	. A2	Chiren S.P.A.	08-31-2000	
	B10	WO	00/66741	A2	Chiron S.P.A.	11-09-2000	
	BII	WO	00/66791	/ Al	Chiron Corporation	11-09-2000	
	B12	wo	00/71574	A2	Chiron S.P.A.	11-30-2000	
	B13	WO	00/71725	A2	Chiron S.P.A.	11-30-2000	
	814	WO	01/04316	A2	Chiron S.P.A.	01-18-2001	
	B15	WO	01/31019	Al	Lavitrogen Corporation	05-03-2001	
	B16	wo	01/37863	A2	Chiran S.P.A.	05-31-2001	
	B17	WO	01/38350	A2	Chiran S.P.A.	03-31-2001	
	B18	wo	01/52885	A)	Chiron S.P.A.	07-26-2001	
	819	WO	01/64920	A2	Chiron S.P.A.	09-07-2001	
	H20	wo	01/64922	A2	Chiron S.P.A.	09-07-2001	
Y	B21	wo	01/81609	A2	Chiron Corporation	11-01-2001	

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Signature	 Considered	

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INIE		ION DIS	CLOSURE	Application Number	09/466,035
				Filing Date	December 17, 1999
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				Art Unit	1633
	(Use as m	any sheets as	necessary)	Examiner Name	A. Wehbe
Shee	et 4	of	6	Attorney Docket Number	PP001231.0105 (002441.00249)

Examiner	Cite	OTTIER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Initials*	No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1 ₂
/AW/	CI	BAGARAZZI et al., "Systemic and mucosal immunity is elicited after both intrarruscular and intravaginal delivery of human immunodeficiency virus type I DNA plasmid vaccines to pregnant chimpanaees," J. Infect. Dis. 180:1351-1355, 1999	
	CZ	BARRE-SINOUSSI et al., "Isolation of a T-lymphotropic retrovirus from a patient at risk for acquired immune deficiency syndrome (AIDS)," Science 220:868-871, 1933	
	C3	BELYAKOV et al., "The importance of local macosal HIV-specific CD8 sytotoxic T lymphocytes for resistance to mucosal viral transmission in mice and cohancement of resistance by local administration of IL-12," J. Clin. Invest. 102:2072-2081, 1998	
	C4	BRUHL et al., "An experimental prime-boost regimen leading to HIV type 1-specific mucosal and systemic immunity in BALB/c mice," AIDS Research and Human Reprovirages 14:401-407, 1998	
	CS	CALEY et al., "Humoral, marcosal, and cellular immunity in response to a human immunodeficiency virus type 1 immunogen expressed by a Venezuelan equino encephalitis virus vaccine vector," J. Virology 71:3031-3038, 1997	
	C 6	CLAVEL et al., "Isolation of a new human retrovirus from West African patients with AIDS," Science 233:343-346, 1986	
	C7	CLAVEL et al., "Molecular clossing and polynumphism of the human interacte deficiency virus type 2," Nature 324:691-695, 1986	
	C8	COONEY et al., "Enhanced immunity to human immunodeficiency virus (HIV) envelope elicited by a combined vaccine regimen consisting of priming with a vaccinta recombinant expressing HIV envelope and boosting with gp160 protein," Proc. Natl. Acad. Sci. USA 90:1882-1886, 1993	,
	C9	EO et al., "Prime-boost immunization with DNA vaccine: mucosal routs of administration changes the rules," J. Immunulogy 166:5473-5479, 2001	
	CIO	GARDNER et al., "Infection of human dendritic cells by a Sindbis virus replicon vector is determined by a single amino acid substitution in the EZ glycoprotein," J. Virology 74:11849-11857, 2000	
V	CII	GRANOFP et al., "Bactericidal monoclonal antibodies that define unique Meningococcal B polysaccharide epitopes that do not cross-react with human polysialio acid," 1. Immunology 160:5028-2036, 1998	

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Attorney Docket Number

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Examiner	Cite	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
initiate*	No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/AW/	C12	GUYADER et al., "Genome organization and transactivation of the human immunodeficiency virus type 2," Nature 326:662-669, 1987	
	C13	JENNINGS et al., "Induction of Meningococcal group B polysaccharide-specific IgG antibodies in mice by using an N- propionylated B polysaccharide-tetanus toxoid conjugate vaccine," J. Immanulogy 137:1708-1713, 1986	
	CI4	JENNINGS et al., "N-propionylated group B Meningocreeal polysaccharide mimics a unique epitope en group B Neisseria Meninglaidis," J. Exp. Med. 165:1207-1211, 1987	
	C15	LEE et al., "Immunization of rhesus monkeys with a mucosal prime, parenteral boost strategy protects against infection with Helicobacter pylort," Vaccine 17:3072-3082, 1999	
	C16	LEVY et al., "Isolation of lymphocytopathic retroviruses from San Francisco patients with AIDS," Science 225:840-842, 1984	
	C17	MOINGEON, "Cancer vaccines," Vaccine 19:1305-1326, 2001	
	CI8	MONTAGNIER et al., "A new human T-lymphotropic retrovirus: characterization and possible rote in lymphadenopathy and acquired immune deficiency syndromes," in Human T-cell Leukemia/Lymphoma Virus, Gallo, Essax & Gross, eds., pp. 363-379, Cold Spring Harbor Laboratory, 1984 POPOVIC et al., "Detection, isolation, and continuous production of cytupathic retroviruses (HTLV-III) from patients with AIDS and now AIDS." Science 224 ATD Control of the patients.	
	C20	with AIDS and pre-AIDS," Science 224:497-500, 1984 ROSENBERG, "Progress in human aumour immunology and immunotherapy," Nature 411:380-384, 2001	
	C21	STAATS et al., "Intranasal immunization is superior to vaginal, gastric, or rectal immanization for the induction of systemic and mucosal anti-HIV antibody responses," AIDS Research and Human Reprovinuses 13:945-952, 1997	
1	C22	VILMER et al., "Isolation of new lymphotropic retrovirus from two siblings with hHacmophilia B, one with AIDS," The Lancet 1:753-757, 1984	

Examiner		Date					
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Signature	·	Considered					

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		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2		
/AW/		CAIRNS et al., "New Viral Vectors for HIV Vaccine Delivery.", Aids Research and Human Retroviruses (Mary And Liebert, ed., US) (1998), 14 (17): 1501-1508.			
		HARIHARAN et al., "DNA Immunization against Herpes Simplex Virus: Enhanced Efficacy Using a Sindbis Virus- Based Vector.", J. Virol. (1998), 72(2): 950-958.			
		KANO et al., "Induction of SIV-specific immune responses by using recombinant sendai viral vector.", 7" Conference on Retroviruses and Opportunistic Infections,[Online] 30 January 2000 – 2 February 2000, retrieval from the Internet: < URL:https://www.retroconference.org/2000/abstracts/807.htm , abstract 807 [retrieved on 2004-01-28].			
		FOLO et al., "Stable alphavirus packaging cell lines for Sindbla virus- and Serniki Forest virus-derived vecture.", PNAS USA (1999), 26: 4598-4603.			
		TSUII et al., "Recombinant Sindbis Viruses Expressing a Cytotoxic T-Lymphocyte Epitope of a Malaria Parasitic or of Influenza Virus Elicit Protection Against the Corresponding Pathogen in Mice.", J. Virol. (1998), 72(8): 6907-10.			
		VAJDY et al., "Human Immunodeficiency Virus Type I Gag-Specific Vaginal Immunity and Protection After Local Immunizations with Sindbis Virus-Based Replicon Particles.", J. of Infect. Diseases (2001), 184: 1613-1616.			
		Harcourt, G.C. "HiV-1 Variation Diminishes CD4 T Lymphocyte Recognitin" J. Exp. Med. (1998) 188, 10, 1785-1793			
		VILLACRES et al., "Maintenance of CD8+ T-Cell Memory Following Infection with Recombinant Sindbis and Vaccinia Viruses", Virology (2000), 270: 54-64.			
		Hu et al. "Immunization with HIV-1 GP160 enhances HIV-specific immune responses elicited by vaccinia-HIV recombinant virus" 6 th International Conference on AIDS, 1990, San Francisco, page 205.			
		Bohm et al. "DNA vector constructs that prime hepatitis B surface antigen-specific cytotoxic T lymphocyte and antibody responses in mice after intramuscular injection" Journal of Immunological Methods, vol. 193, 14, June 1996. 29-40			
		Li et al. "Priming with recombinant influenza virus followed by administration of recombinant vaccinia virus induces CD8+ t-cell-mediated protective immunity against malaria." PNAS, vol. 90, 1993, 5214-5218.			
\bigvee		Sallberg et al. "Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and E antigens." Journal of Virology. Vol. 71, no. 7, July 1997. 5295-5303.			

Examiner Signature	/Anne Marie Wehbe/ (11/04/2007)	Date Considered	11/04/2007
Signature	,, and the trongs, (1,70 ti 2007)	Considered	1 1/0 1/2001

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